

09/823937

SPE RESPONSE FOR CERTIFICATE OF CORRECTION

Paper No.: _____

DATE : 11-2-05

TO SPE OF : ART UNIT 1731

SUBJECT : Request for Certificate of Correction on Patent No.: 6851280

A response is requested with respect to the accompanying request for a certificate of correction.

Please complete this form and return with file, within 7 days to:

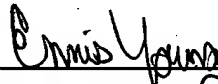
Certificates of Correction Branch - ~~PK 3-922~~ South Tower 9A22

Palm location 7580 - Tel. No. 305-8309

With respect to the change(s) requested, correcting Office and/or Applicant's errors, should the patent read as shown in the certificate of correction? No new matter should be introduced, nor should the scope or meaning of the claims be changed.

Check claims

Thank You For Your Assistance


Certificates of Correction Branch

The request for issuing the above-identified correction(s) is hereby:

Note your decision on the appropriate box.

☐ Approved

All changes apply.

☐ Approved in Part

Specify below which changes do not apply.

☐ Denied

State the reasons for denial below.

Comments:

SPE

Art Unit

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

Page 1 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the Title Page, Column 2, after the Abstract, delete "19 Claims" and insert -- 20 Claims --.

Delete all of the claims as printed, that is, from Line 38 of Column 21 (beginning with "1. In a..") through the last line of Column 24 ("ponents in conventional quantities.", and insert the following new set of claims renumbered as Claims 1-20:

-- 1. A method of making a halogen lamp by hot forming, said method comprising the steps of:

- (a) producing a melt of molten glass;
- (b) passing said molten glass along a tool to form a glass body having an interior and an exterior;
- (c) selecting a gas having an oxygen

MAILING ADDRESS OF SENDER:

PATENT NO. ~~6,851,280 B2~~

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

Page 2 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:

content selected to treat a portion of a glass
material of said halogen lamp from an interior
surface of said halogen lamp to a desired depth
from said interior surface sufficient to decrease
darkening by tungsten deposition on said interior
surface of said treated portion of said glass
material during operation of said halogen lamp;

(d) providing a stream of said gas to
contact a portion of said interior of said glass
body;

(e) inserting a filament in said glass body
to produce said halogen lamp; and

(f) injecting halogen gas into said glass
body to produce said halogen lamp.

2. The method according to Claim 1,
wherein said desired depth of step (c) is in the
range of 150nm to 2000nm from said interior
surface.

3. The method according to Claim 2,

MAILING ADDRESS OF SENDER:

PATENT NO. ~~6,851,280 B2~~

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

Page 3 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:

wherein at least one of (i) and (ii):

(i) said step of passing said molten glass
along a tool to form a glass body comprises
passing said molten glass along a tool which is
configured to withstand a temperature of more
than 1000°C, and which is one of:

coated at least partly with platinum or
a platinum-containing alloy; and
made of platinum or a platinum-
containing alloy; and

(ii) said step of providing a stream of said
gas comprises providing a stream of said gas
through a guide structure which is configured to
withstand a temperature of more than 1000°C,
and which is one of:

coated at least partly with platinum or
a platinum-containing alloy; and
made of platinum or a platinum-
containing alloy.

MAILING ADDRESS OF SENDER:

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

PATENT NO. ~~6,851,280 B2~~

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050) Page 4 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

4. The method according to Claim 3,
wherein:

said step of providing a stream of gas
comprises providing a stream of gas having an
oxygen content in the range of one of:

up to 80 vol.%; and
10 to 30 vol.%;

said step of providing a stream of gas
comprises providing a stream of gas containing
at least one additional gas in addition to oxygen
in a predetermined amount, said at least one
additional gas being from the group consisting
of nitrogen, inert gases, CO₂, SO₂, and H₂O;
and

at least one of (A), (B), (C), and (D):

(A) said glass melt has a viscosity in
the range of 10⁴ to 10⁵ dPas;

(B) said glass melt has a temperature
of more than one of: 1000°C and 1200°C;

MAILING ADDRESS OF SENDER:

PATENT NO. ~~6,851,280 B2~~

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

Page 5 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:

(C) said glass melt is one of: a
borosilicate glass melt, a neutral glass
melt, and an aluminosilicate glass melt;

(D) said glass melt has one of the
following compositions (Da) and (Db) (in
wt.% on an oxide basis):

(Da) SiO ₂	40-75
Al ₂ O ₃	10-27
B ₂ O ₃	0-15
MgO	0-10
CaO	0-12
SrO	0-12
BaO	0-30
ZnO	0-10
ZrO ₂	0-5
Li ₂ O + Na ₂ O + K ₂ O	0-7
TiO ₂	0-5.5
P ₂ O ₅	0-9.0
as well as optional fining agents	

MAILING ADDRESS OF SENDER:

PATENT NO. ~~6,851,280 B2~~

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

(Also Form PTO-1050)

Page 6 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:

and coloring components in
conventional quantities;

(Db) SiO ₂	60-80
Al ₂ O ₃	2-10
B ₂ O ₃	5-20
MgO	0-8
CaO	0-12
SrO	0-8
BaO	0-12
ZnO	0-10
ZrO ₂	0-5
Li ₂ O + Na ₂ O + K ₂ O	2-12

as well as optional fining agents
and coloring components in
conventional quantities.

5. The halogen lamp made according to
the method of Claim 1.

6. A method of making a finished glass
object, comprising one of: lamp bulbs, ampoules,

MAILING ADDRESS OF SENDER:

PATENT NO. ~~6,851,280 B2~~

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1985, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

(Also Form PTO-1050)

Page 7 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

bottles, vials, cylinder ampoules, pharmaceutical primary packaging, containers for medical and pharmaceutical products, reagent containers, test tubes, burets, pipettes, titration cylinders, tubular parts for chemical equipment construction, and flat glass, by hot forming, said method comprising the steps of:

- (a) producing a melt of molten glass;
- (b) forming a glass body;
- (c) selecting a gas having an oxygen content of one of: >0 to 20 vol.% and 22 to 100 vol.%, wherein said oxygen content is selected to decrease alkali ions, in a portion of a glass material of said finished glass object, from an exposed surface of said finished glass object to a desired depth of between 150nm to 2000nm from said exposed surface to decrease reactivity of said portion of said glass material to the desired depth from said exposed surface;

MAILING ADDRESS OF SENDER:

PATENT NO. ~~6,851,280 B2~~

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0851-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050) Page 8 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:

(d) providing a stream of said gas to
contact a portion of a surface of said glass
body; and

(e) finishing said glass body to form said
finished glass object.

7. The method according to Claim 6,
wherein at least one of (i) and (ii):

(i) said step of forming a glass body
comprises passing said molten glass along a
tool which is configured to withstand a
temperature of more than 1000°C, and which is
one of:

coated at least partly with platinum or
a platinum-containing alloy; and

made of platinum or a platinum-
containing alloy; and

(ii) said step of providing a stream of said
gas comprises providing a stream of said gas
through a guide structure which is configured to

MAILING ADDRESS OF SENDER:

PATENT NO. 6,851,280 B2

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

(Also Form PTO-1050)

Page 9 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO. : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

withstand a temperature of more than 1000°C,
and which is one of:

coated at least partly with platinum or
a platinum-containing alloy; and
made of platinum or a platinum-
containing alloy.

8. The method according to Claim 7,
wherein:

said step of providing a stream of gas
comprises providing a stream of gas having an
oxygen content in the range of one of:

22 to 80 vol.%; and
10 to 20 vol.%;

said step of providing a stream of gas
comprises providing a stream of gas containing
at least one additional gas in addition to oxygen
in a predetermined amount, said at least one
additional gas being from the group consisting
of nitrogen, inert gases, CO₂, SO₂, and H₂O;

MAILING ADDRESS OF SENDER:

PATENT NO. ~~6,851,280 B2~~

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050) Page 10 of 22

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

and

at least one of (A), (B), (C), and (D):

(A) said glass melt has a viscosity in the range of 10^4 to 10^5 dPas;

(B) said glass melt has a temperature of more than one of: 1000°C and 1200°C;

(C) said glass melt is one of: a borosilicate glass melt, a neutral glass melt, and an aluminosilicate glass melt;

(D) said glass melt has one of the following compositions (Da) and (Db) (in wt.% on an oxide basis):

(Da) SiO ₂	40-75
Al ₂ O ₃	10-27
B ₂ O ₃	0-15
MgO	0-10
CaO	0-12
SrO	0-12
BaO	0-30

MAILING ADDRESS OF SENDER:

PATENT NO. 6,851,280 B2

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

Page 11 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:

ZnO	0-10
ZrO ₂	0-5
Li ₂ O + Na ₂ O + K ₂ O	0-7
TiO ₂	0-5.5
P ₂ O ₅	0-9.0

as well as optional fining agents
and coloring components in
conventional quantities;

(Db) SiO ₂	60-80
Al ₂ O ₃	2-10
B ₂ O ₃	5-20
MgO	0-8
CaO	0-12
SrO	0-8
BaO	0-12
ZnO	0-10
ZrO ₂	0-5
Li ₂ O + Na ₂ O + K ₂ O	2-12

as well as optional fining agents

MAILING ADDRESS OF SENDER:

PATENT NO. 6,851,280 B2

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB444 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

(Also Form PTO-1050)

Page 12 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:

and coloring components in
conventional quantities.

9. The finished glass object made
according to the method of Claim 6.

10. A method of making a finished glass
object, comprising one of: lamp bulbs, ampoules,
bottles, vials, cylinder ampoules, pharmaceutical
primary packaging, containers for medical and
pharmaceutical products, reagent containers, test
tubes, burets, pipettes, titration cylinders, and
tubular parts for chemical equipment
construction, by hot forming, said method
comprising the steps of:

- (a) producing a melt of molten glass;
- (b) forming a glass body;
- (c) selecting a gas having an oxygen
content selected to decrease alkali ions, in a
portion of a glass material of said finished glass
object, from an exposed surface of said finished

MAILING ADDRESS OF SENDER:

PATENT NO. 6,851,280 B2

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

(Also Form PTO-1050)

Page 13 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

glass object to a desired depth from said exposed surface sufficient to decrease reactivity of said portion of said glass material to the desired depth from said exposed surface;

(d) providing a stream of said gas to contact a portion of a surface of said glass body; and

(e) finishing said glass body to form said finished glass object.

11. The method according to Claim 10, wherein at least one of (i) and (ii):

(i) said step of forming a glass body comprises passing said molten glass along a tool which is configured to withstand a temperature of more than 1000°C, and which is one of:

coated at least partly with platinum or a platinum-containing alloy; and
made of platinum or a platinum-

MAILING ADDRESS OF SENDER:

PATENT NO. ~~6,851,280 B2~~

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0851-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

Page 14 of 22.

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

containing alloy; and
(ii) said step of providing a stream of said gas comprises providing a stream of said gas through a guide structure which is configured to withstand a temperature of more than 1000°C, and which is one of:
coated at least partly with platinum or a platinum-containing alloy; and
made of platinum or a platinum-containing alloy.

12. The method according to Claim 11, wherein said desired depth of step (c) is in the range of 150nm to 2000nm from said exposed surface.

13. The method according to Claim 12, wherein said step of providing a stream of gas comprises providing a stream of gas having an oxygen content in the range of one of:
up to 80 vol.%; and

MAILING ADDRESS OF SENDER:

PATENT NO. ~~6,851,280 B2~~

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

Page 15 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

10 to 30 vol. %.

14. The method according to Claim 13,
wherein:

said step of providing a stream of gas comprises providing a stream of gas containing at least one additional gas in addition to oxygen in a predetermined amount, said at least one additional gas being from the group consisting of nitrogen, inert gases, CO₂, SO₂, and H₂O; and

wherein at least one of (A), (B), (C), and (D):

(A) said glass melt has a viscosity in the range of 10⁴ to 10⁵ dPas;

(B) said glass melt has a temperature of more than one of: 1000°C and 1200°C;

(C) said glass melt is one of: a borosilicate glass melt, a neutral glass melt, and an aluminosilicate glass melt;

MAILING ADDRESS OF SENDER:

PATENT NO. ~~6,851,280 B2~~

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0551-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

Page 16 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:

(D) said glass melt has one of the
following compositions (Da) and (Db) (in
wt.% on an oxide basis):

(Da) SiO ₂	40-75
Al ₂ O ₃	10-27
B ₂ O ₃	0-15
MgO	0-10
CaO	0-12
SrO	0-12
BaO	0-30
ZnO	0-10
ZrO ₂	0-5
Li ₂ O + Na ₂ O + K ₂ O	0-7
TiO ₂	0-5.5
P ₂ O ₅	0-9.0

as well as optional fining agents
and coloring components in
conventional quantities;

(Db) SiO ₂	60-80
-----------------------	-------

MAILING ADDRESS OF SENDER:

PATENT NO. 6,851,280 B2

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

(Also Form PTO-1050)

Page 17 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:

Al ₂ O ₃	2-10
B ₂ O ₃	5-20
MgO	0-8
CaO	0-12
SrO	0-8
BaO	0-12
ZnO	0-10
ZrO ₂	0-5
Li ₂ O + Na ₂ O + K ₂ O	2-12

as well as optional fining agents
and coloring components in
conventional quantities.

15. The glass object made according to
the method of Claim 10.

16. A method of making a finished glass
object comprising flat glass, by hot forming, said
method comprising the steps of:

- (a) producing a melt of molten glass;
- (b) forming a glass body;

MAILING ADDRESS OF SENDER:

PATENT NO. ~~6,851,280 B2~~

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

Page 18 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:

(c) selecting a gas consisting of at least one member of the group consisting of: oxygen, nitrogen, inert gases, CO₂, SO₂, and H₂O, and having an oxygen content selected to treat a portion of a glass material of said finished glass object, from an exposed surface of said finished glass object to a desired depth from said exposed surface sufficient to decrease reactivity of said portion of said glass material to the desired depth from said exposed surface; and

(d) providing a stream of said gas to contact a portion of a surface of said glass body.

17. The method according to Claim 16, wherein said desired depth of step (c) is in the range of 150nm to 2000nm from said exposed surface.

18. The method according to Claim 17, wherein at least one of (i) and (ii):

MAILING ADDRESS OF SENDER:

PATENT NO. ~~6,851,280 B2~~

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

(Also Form PTO-1050)

Page 19 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:

(i) said step of forming a glass body
comprises passing said molten glass along a
tool which is configured to withstand a
temperature of more than 1000°C, and which is
one of:

coated at least partly with platinum or
a platinum-containing alloy; and
made of platinum or a platinum-
containing alloy; and

(ii) said step of providing a stream of said
gas comprises providing a stream of said gas
through a guide structure which is configured to
withstand a temperature of more than 1000°C,
and which is one of:

coated at least partly with platinum or
a platinum-containing alloy; and
made of platinum or a platinum-
containing alloy.

19. The method according to Claim 18,

MAILING ADDRESS OF SENDER:

PATENT NO. ~~6,851,280 B2~~

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

(Also Form PTO-1050)

Page 20 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:

wherein:

said step of providing a stream of gas
comprises providing a stream of gas having an
oxygen content in the range of one of:

up to 80 vol.%; and

10 to 30 vol.%; and

at least one of (A), (B), (C), and (D):

(A) said glass melt has a viscosity in
the range of 10^4 to 10^5 dPas;

(B) said glass melt has a temperature
of more than one of: 1000°C and 1200°C;

(C) said glass melt is one of: a
borosilicate glass melt, a neutral glass
melt, and an aluminosilicate glass melt;

(D) said glass melt has one of the
following compositions (Da) and (Db) (in
wt.% on an oxide basis):

(Da) SiO ₂	40-75
Al ₂ O ₃	10-27

MAILING ADDRESS OF SENDER:

PATENT NO. ~~6,851,280 B2~~

NILS H. LJUNGMAN & ASSOCIATES

No. of additional copies

P.O. BOX 130

GREENSBURG, PA 15601-0130



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.
(Also Form PTO-1050)

Page 21 of 22

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:

B ₂ O ₃	0-15
MgO	0-10
CaO	0-12
SrO	0-12
BaO	0-30
ZnO	0-10
ZrO ₂	0-5
Li ₂ O + Na ₂ O + K ₂ O	0-7
TiO ₂	0-5.5
P ₂ O ₅	0-9.0

as well as optional fining agents
and coloring components in
conventional quantities;

(Db) SiO ₂	60-80
Al ₂ O ₃	2-10
B ₂ O ₃	5-20
MgO	0-8
CaO	0-12
SrO	0-8

MAILING ADDRESS OF SENDER:

PATENT NO. ~~6,851,280 B2~~

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PTO/SB/44 (02-01)

Approved for use through 01/31/2004. OMB 0651-0033

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Page 22 of 22

(Also Form PTO-1050)

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**

PATENT NO : 6,851,280 B2
DATED : February 8, 2005
INVENTOR(S) : Franz OTT, Otmar BECKER, and Karin NAUMANN

It is certified that error appears in the above-identified patent and that said Letters Patent
is hereby corrected as shown below:

BaO 0-12

ZnO 0-10

ZrO₂ 0-5

Li₂O + Na₂O + K₂O 2-12

as well as optional fining agents

and coloring components in
conventional quantities.

20. The glass object made according to
the method of Claim 16. --

MAILING ADDRESS OF SENDER:

PATENT NO. ~~6,851,280 B2~~

NILS H. LJUNGMAN & ASSOCIATES
P.O. BOX 130
GREENSBURG, PA 15601-0130

No. of additional copies



Burden Hour Statement: This form is estimated to take 1.0 hour to complete. Time will vary depending upon the needs of the individual case. Any comment on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231.
DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.